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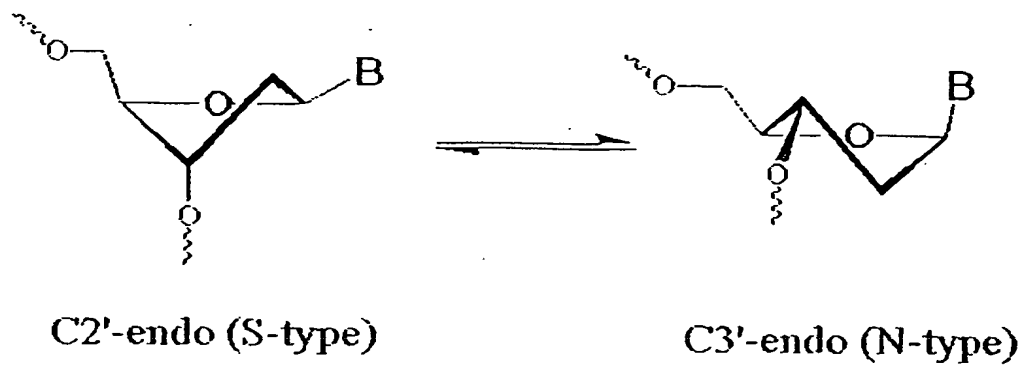


Fig. 1

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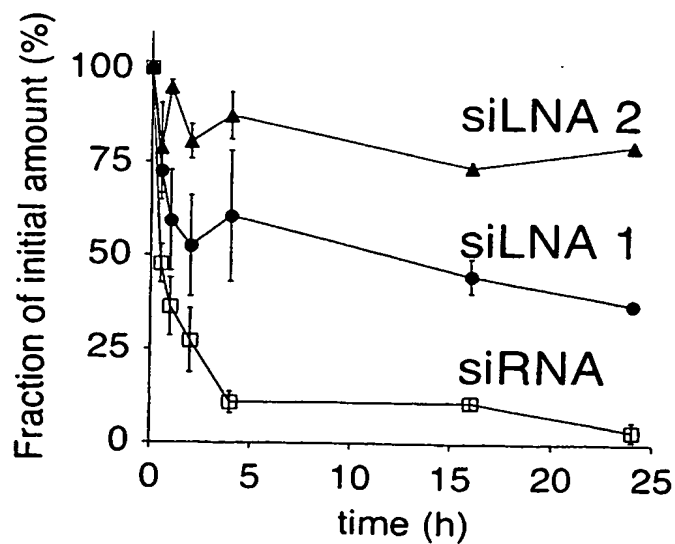
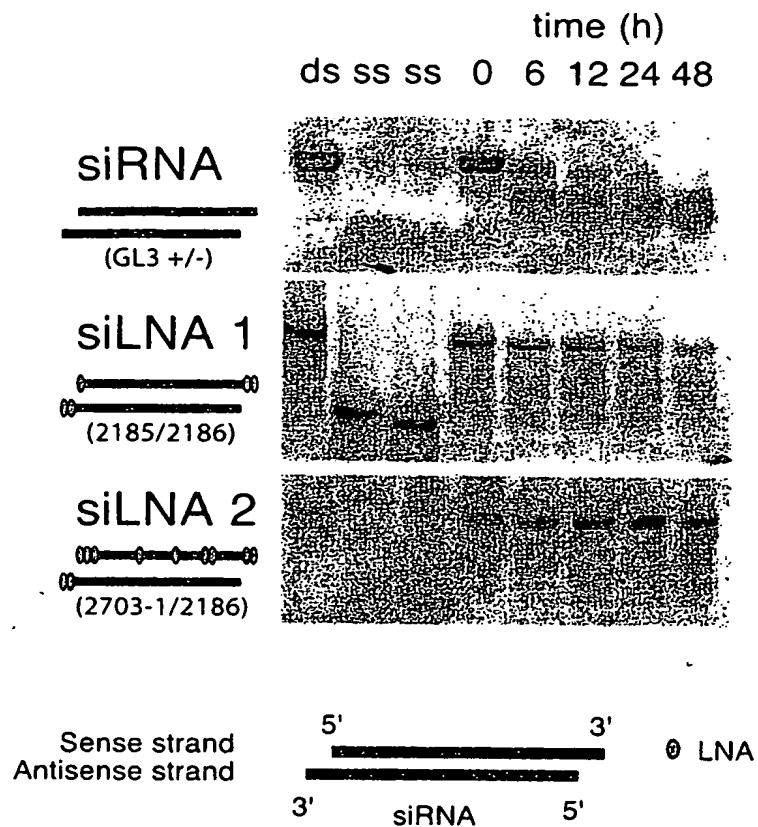


Fig. 2

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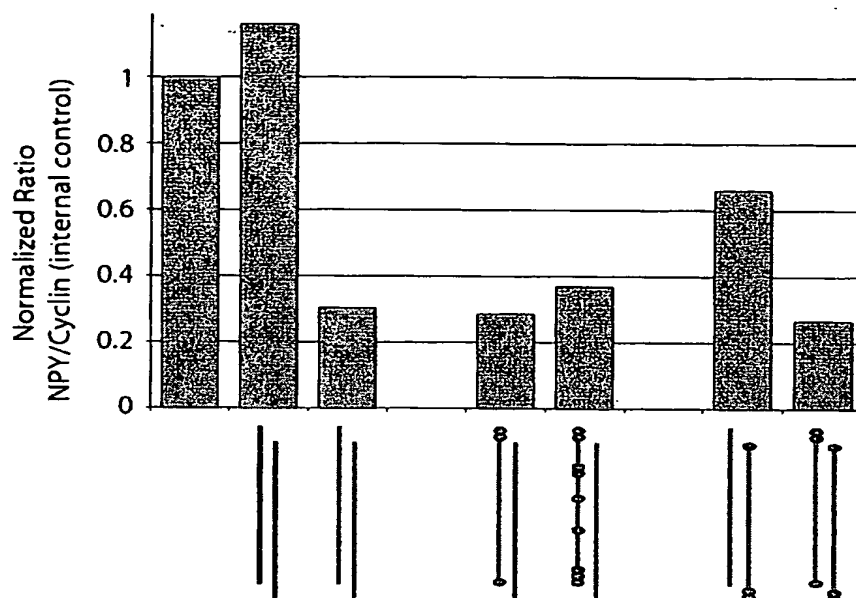


Fig. 3

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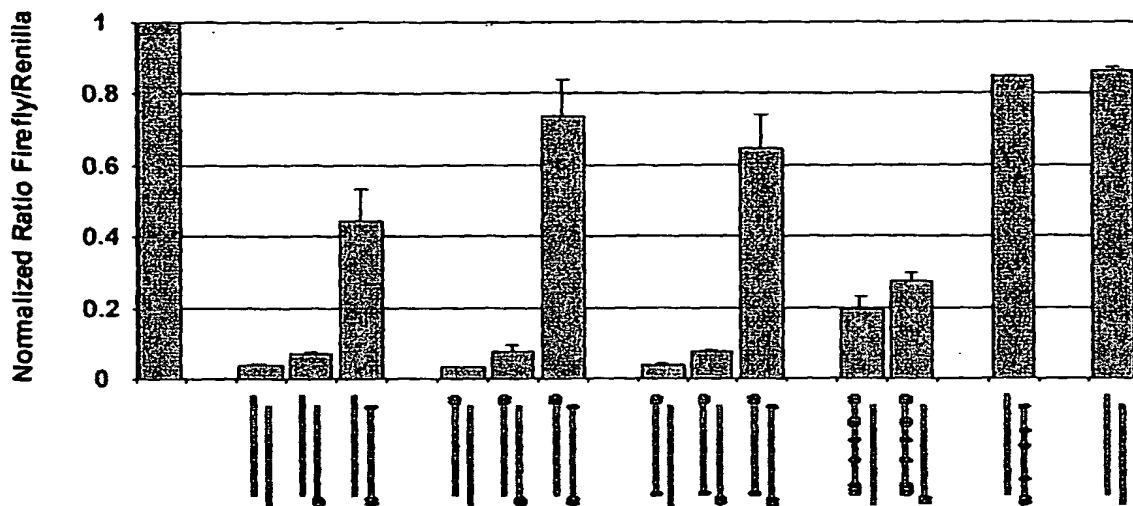


Fig. 4

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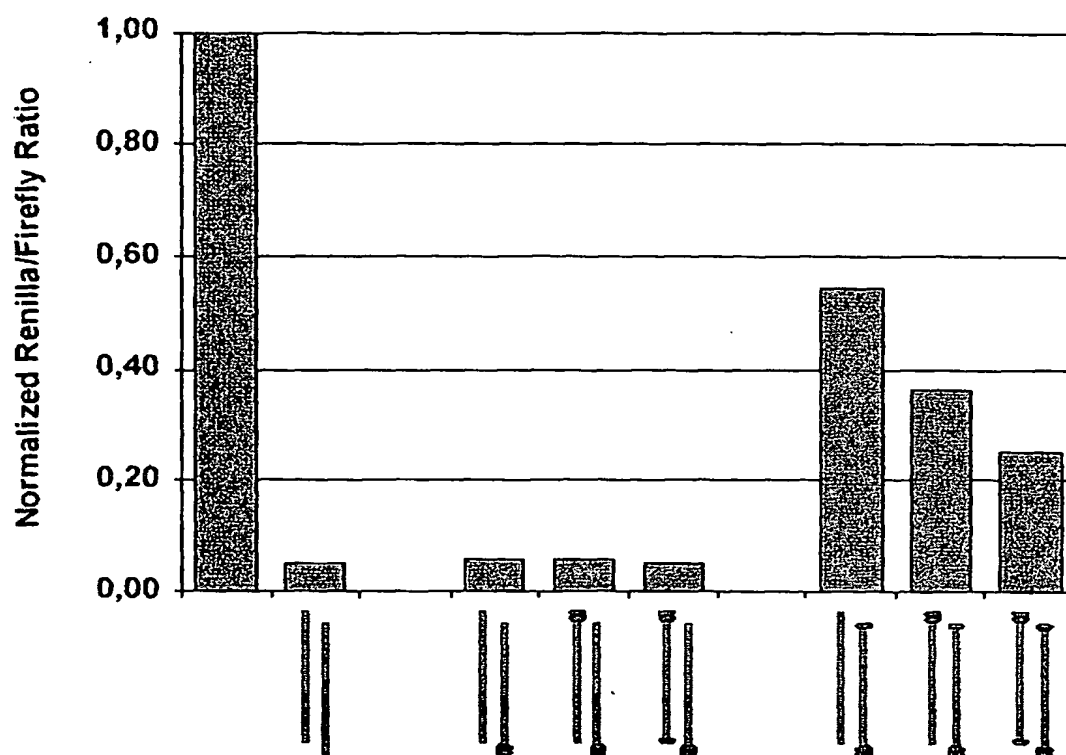


Fig. 5

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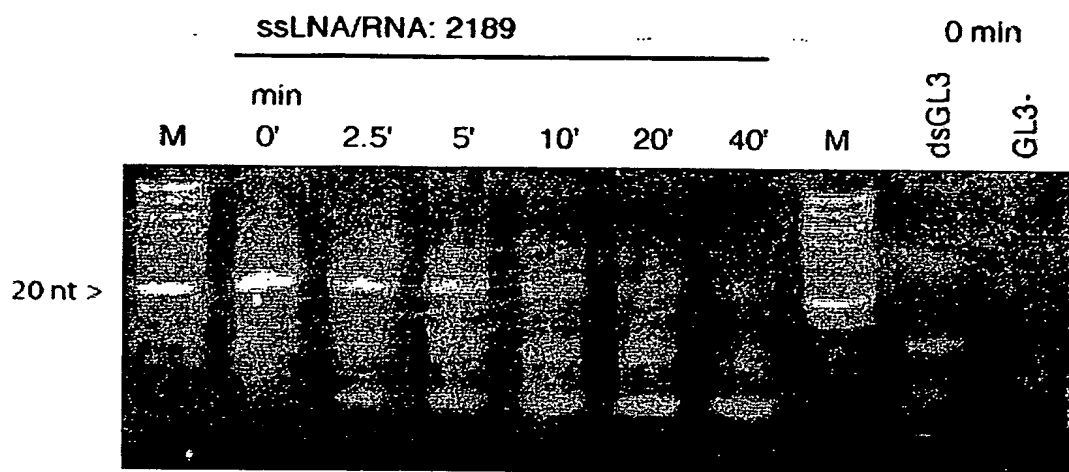
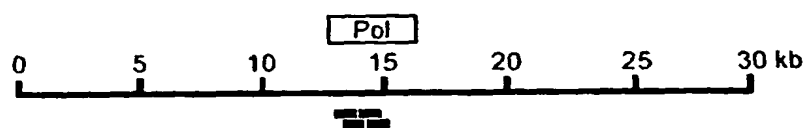


Fig. 6

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siRNA/siLNA targeting SARS



siRNA

| | <u>Start position</u> | | <u>End position</u> |
|---------------|-----------------------|--|---------------------|
| siRNA SARS 1: | 13,547 | 5'-ggaugaggaaggcaauuatt-3' 3'-ttccuacuccuuccguuaaa-5' | 13,567 |
| siRNA SARS 2: | 14,015 | 5'-cugguacgauuucggugautt-3' 3'-ttgaccaugcuaaagccacua-5' | 14,035 |
| siRNA SARS 3: | 14,595 | 5'-acugucaaaacccgguaauutt-3' 3'-ttugacaguugggccauuaa-5' | 14,615 |
| siRNA SARS 4: | 14,770 | 5'-gacaacuccuauucguagutt-3' 3'-ttcuguugaggauaagcauca-5' | 14,790 |

siLNA

| | | | |
|---------------|--------|--|--------|
| siLNA SARS 1: | 13,547 | 5'-GgaugaggaaggcaauuuATT-3' 3'-TTccuacuccuuccguuaaaU-5' | 13,567 |
| siLNA SARS 2: | 14,015 | 5'-CugguacgauuucggugauTT-3' 3'-TTgaccaugcuaaagccacua-5' | 14,035 |
| siLNA SARS 3: | 14,595 | 5'-AcugucaaaacccgguaauuTT-3' 3'-TTugacaguugggccauuaa-5' | 14,615 |
| siLNA SARS 4: | 14,770 | 5'-GacaacuccuauucguaguTT-3' 3'-TTcuguugaggauaagcauca-5' | 14,790 |

Fig. 7

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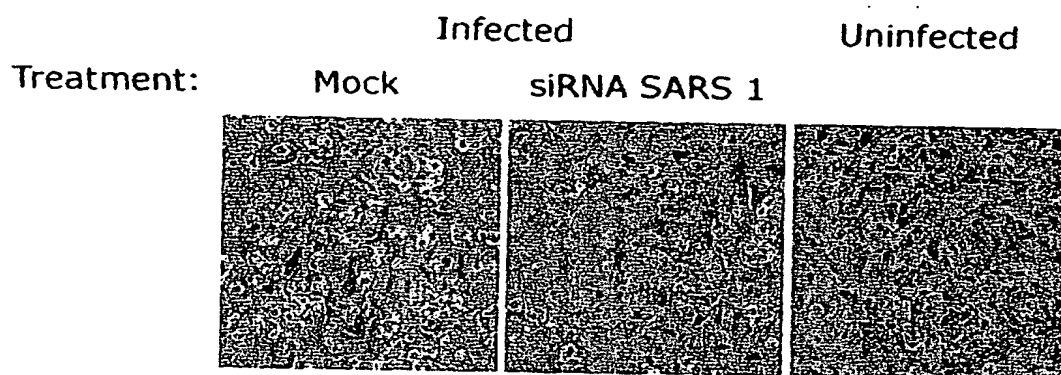


Fig. 8

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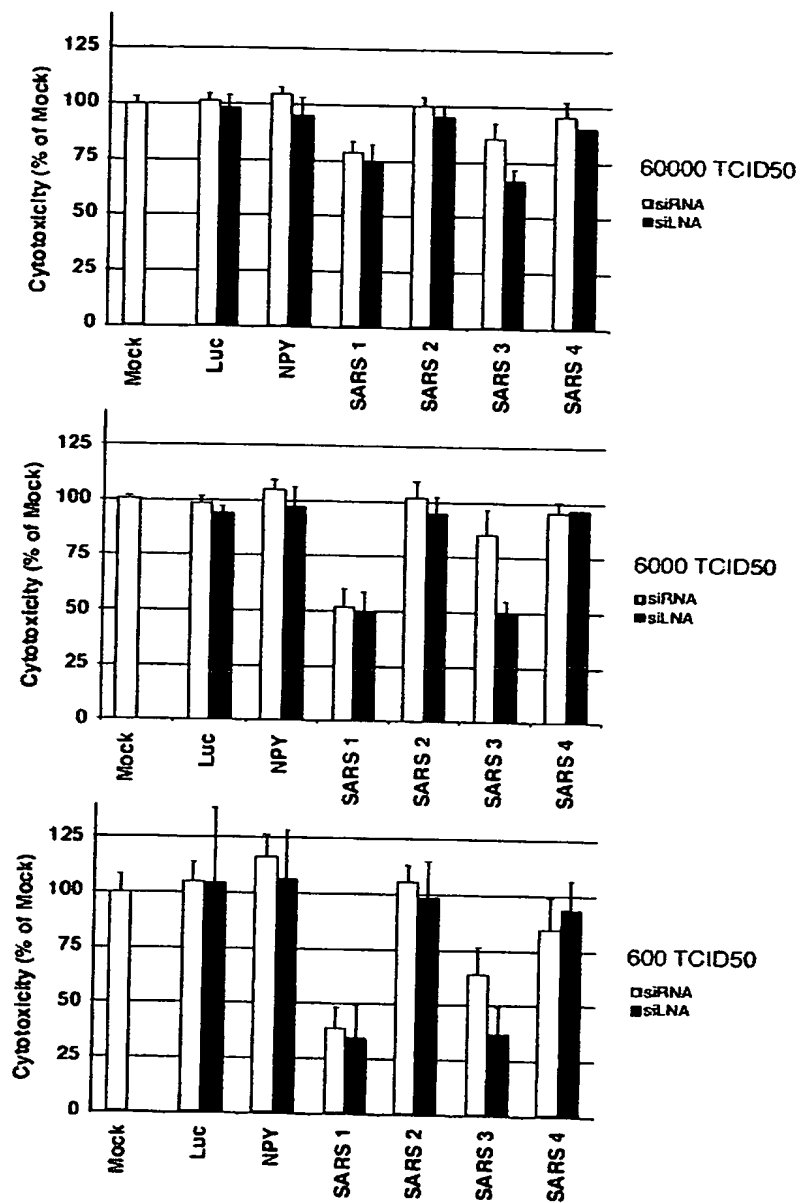


Fig. 9

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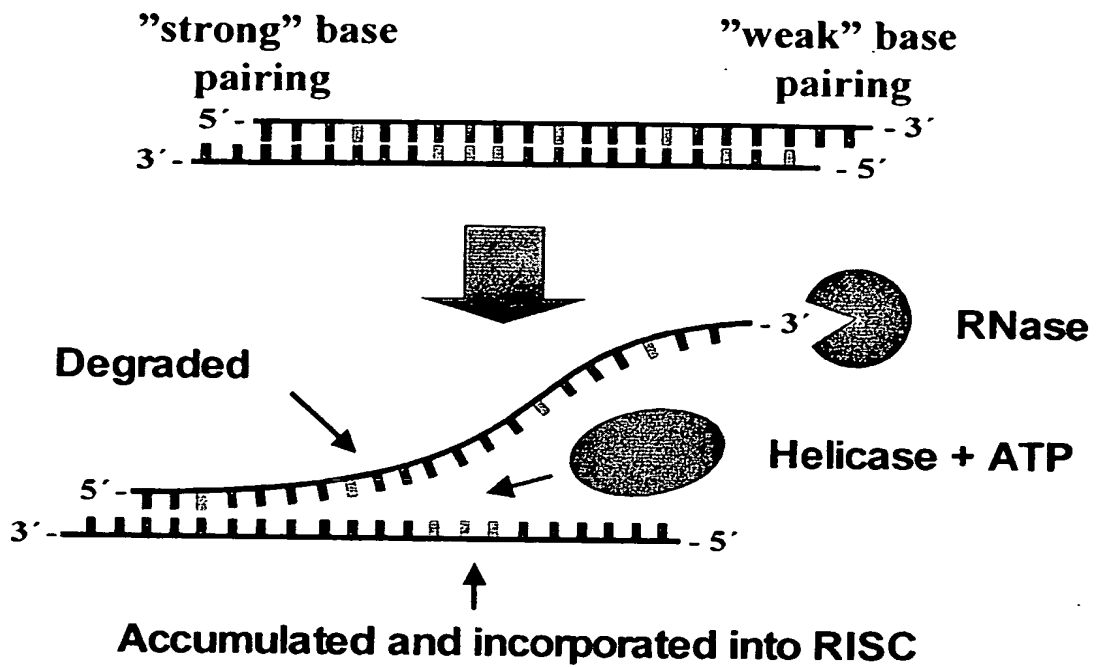
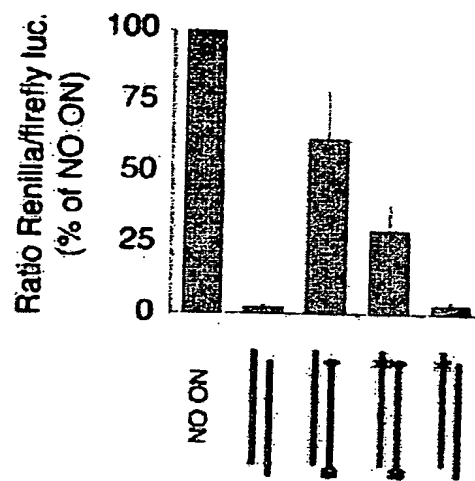


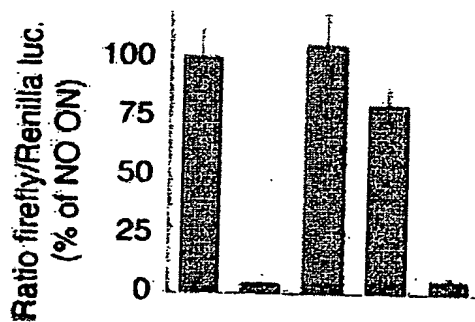
Fig. 10

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Target: *Renilla*
luciferase



Target: firefly
luciferase



■ RNA
● LNA
x mismatch

Fig. 11

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LNA walk on siRNA antisense strand

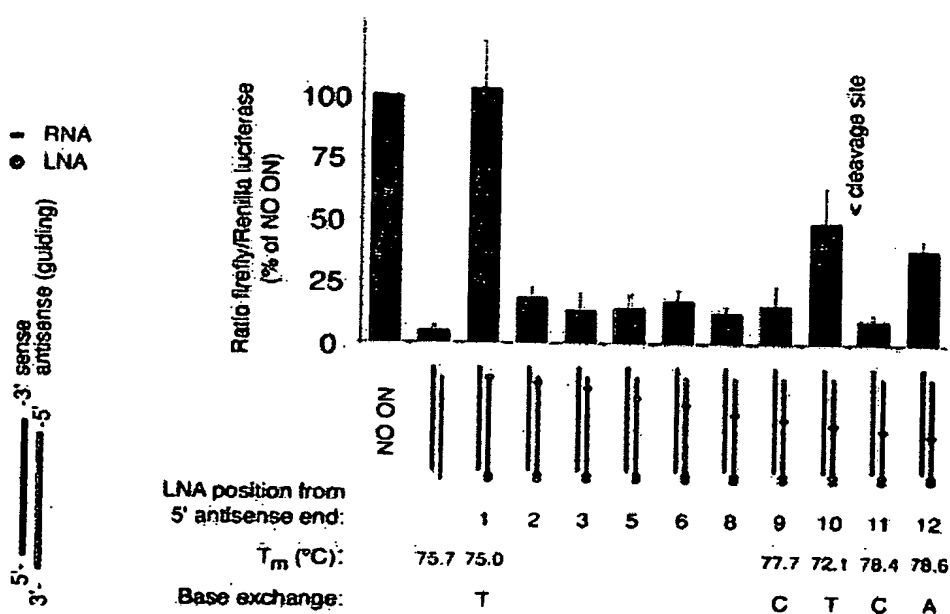


Fig. 12

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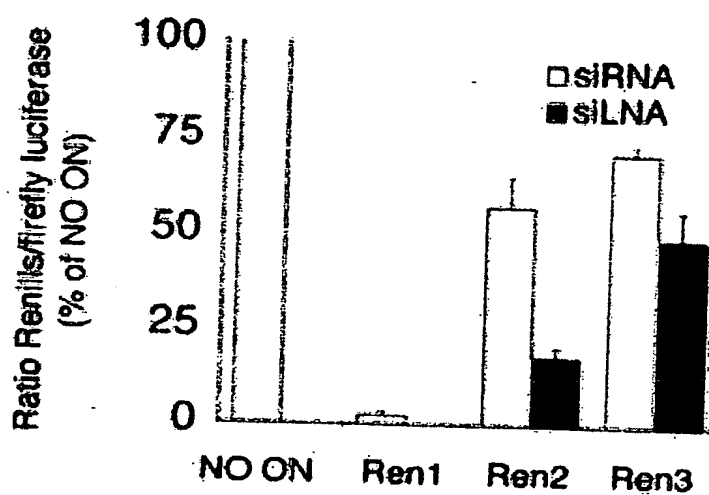
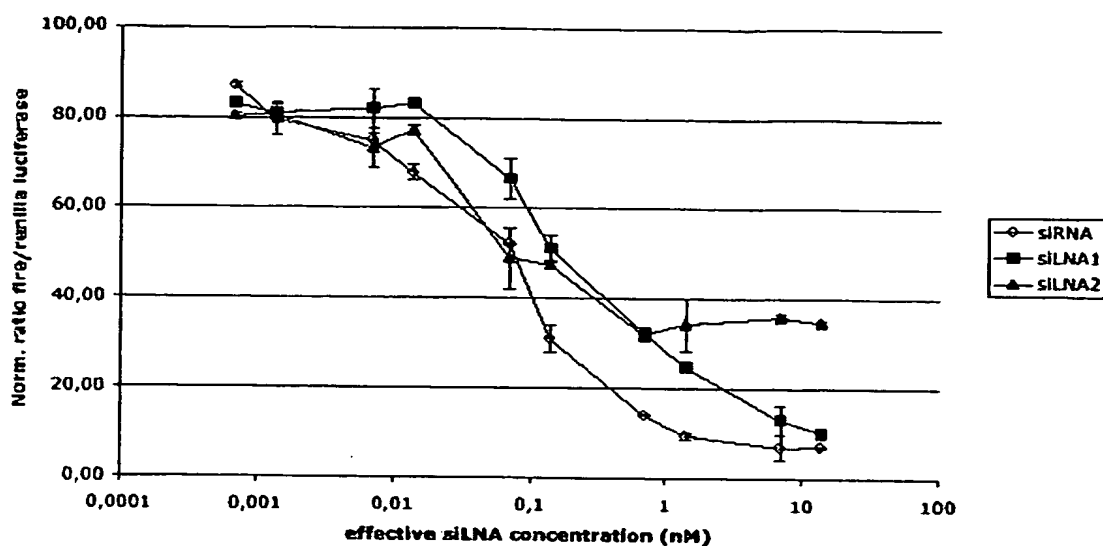


Fig. 13

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**siRNA:**

5' -cuuacgcugaguacuucgatt-3'
 3' -ttgaaugcgacucaugaagcu-5'

siLNA1:

5' -CuuacgcugaguacuucgaTT-3'
 3' -TTgaaugcgacucaugaagcu-5'

siLNA2:

5' -CTTAcgcTgagTacTTcgaTT-3'
 3' -TTgaaugcgacucaugaagcu-5'

Fig. 14

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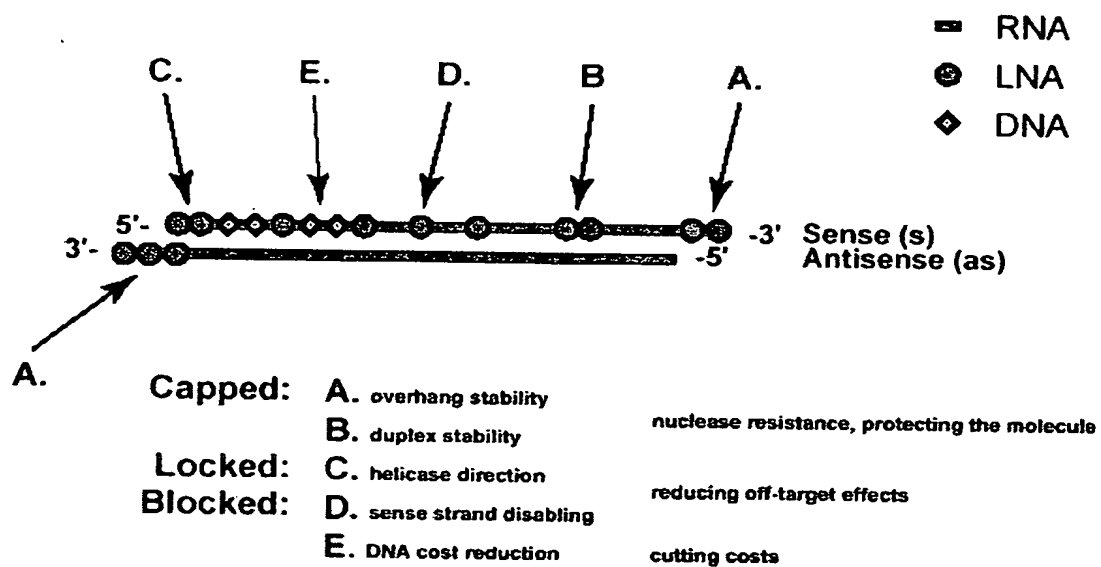


Fig. 15

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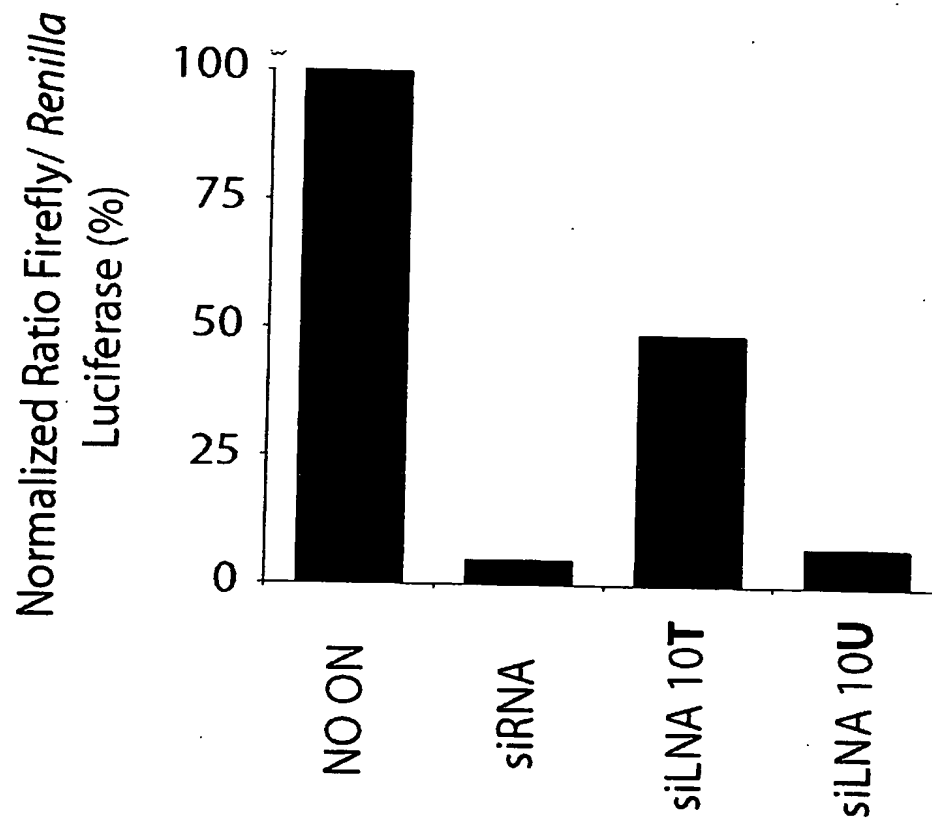
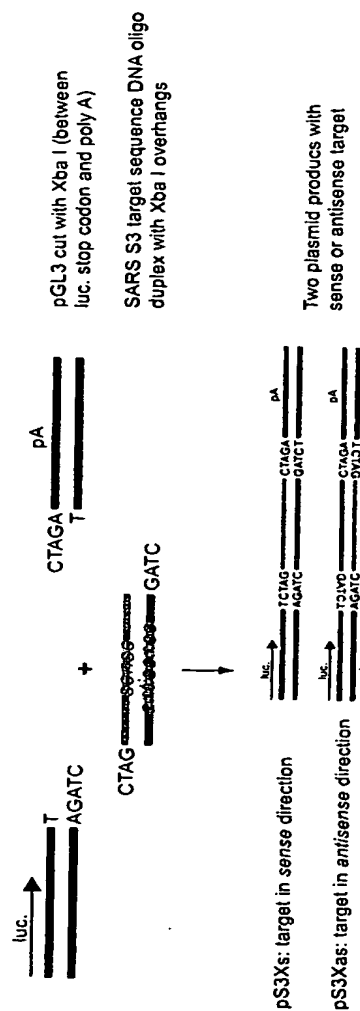


Fig. 16

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Cloning of SARS target sequence in sense and antisense direction in firefly luciferase 3' UTR



siRNA RISC assembly and target cleavage depending on incorporated strand

siRNA maintain full effect of antisense strand while abolishing the effect of the sense strand

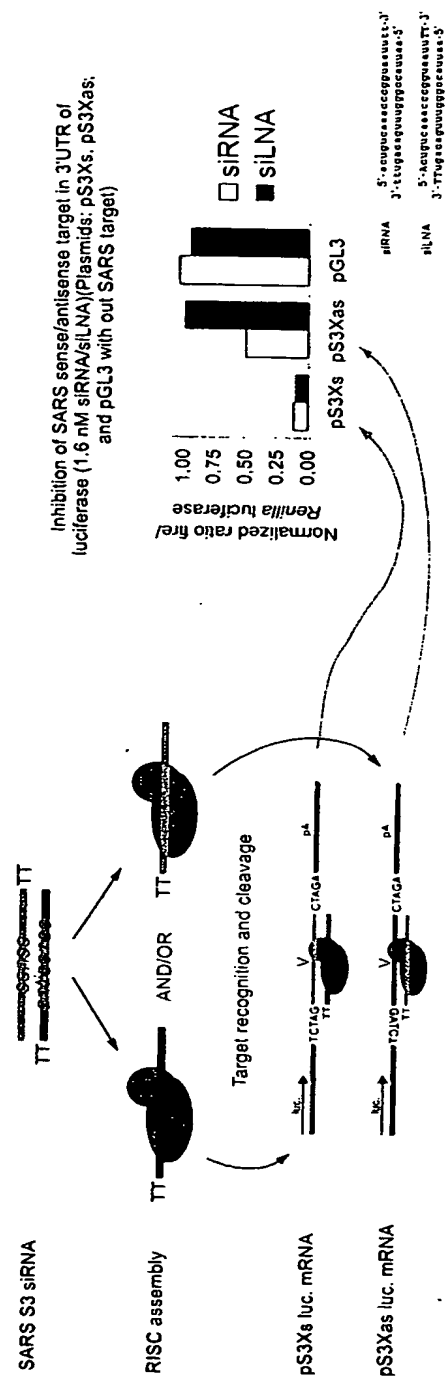


Fig. 17

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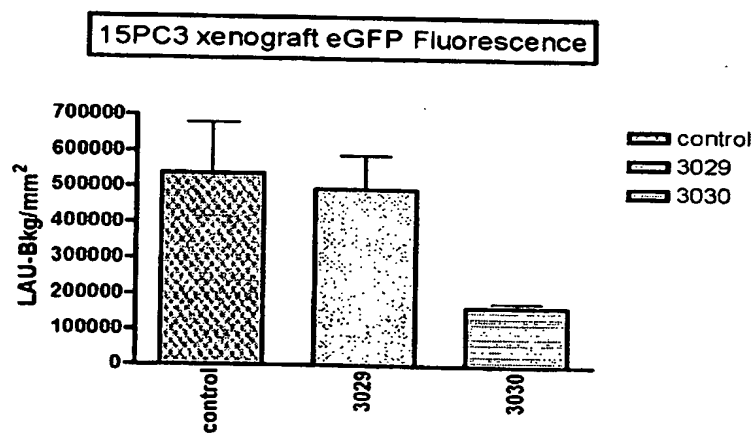
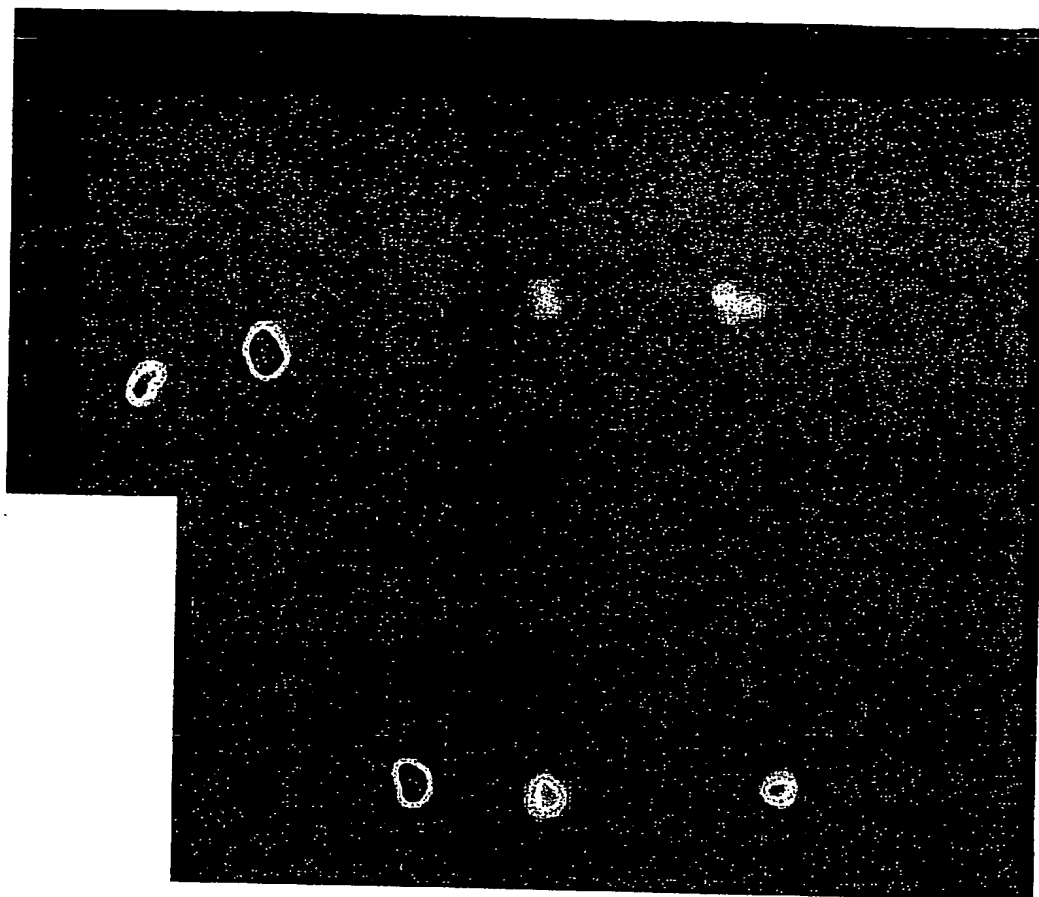


Fig. 18

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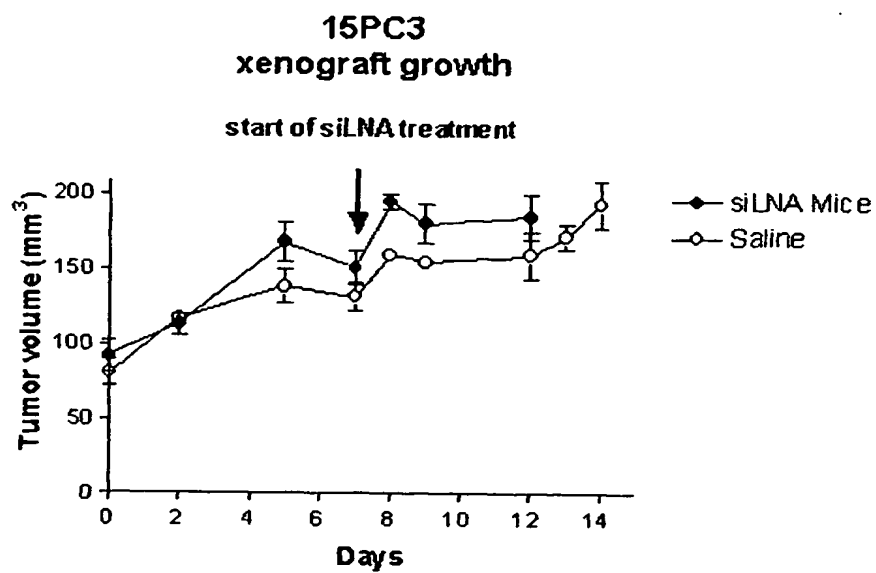


Fig. 19

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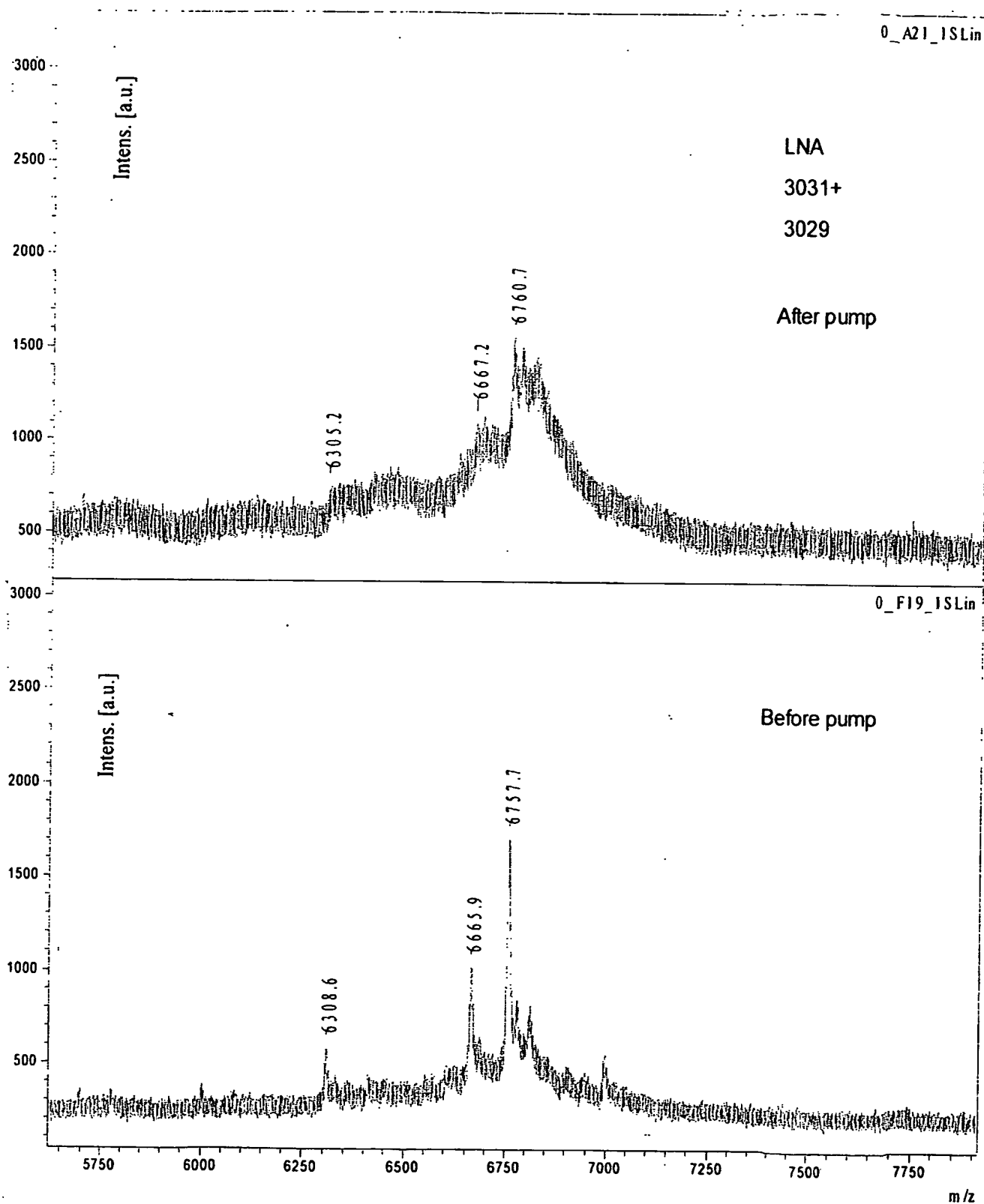


Fig. 20
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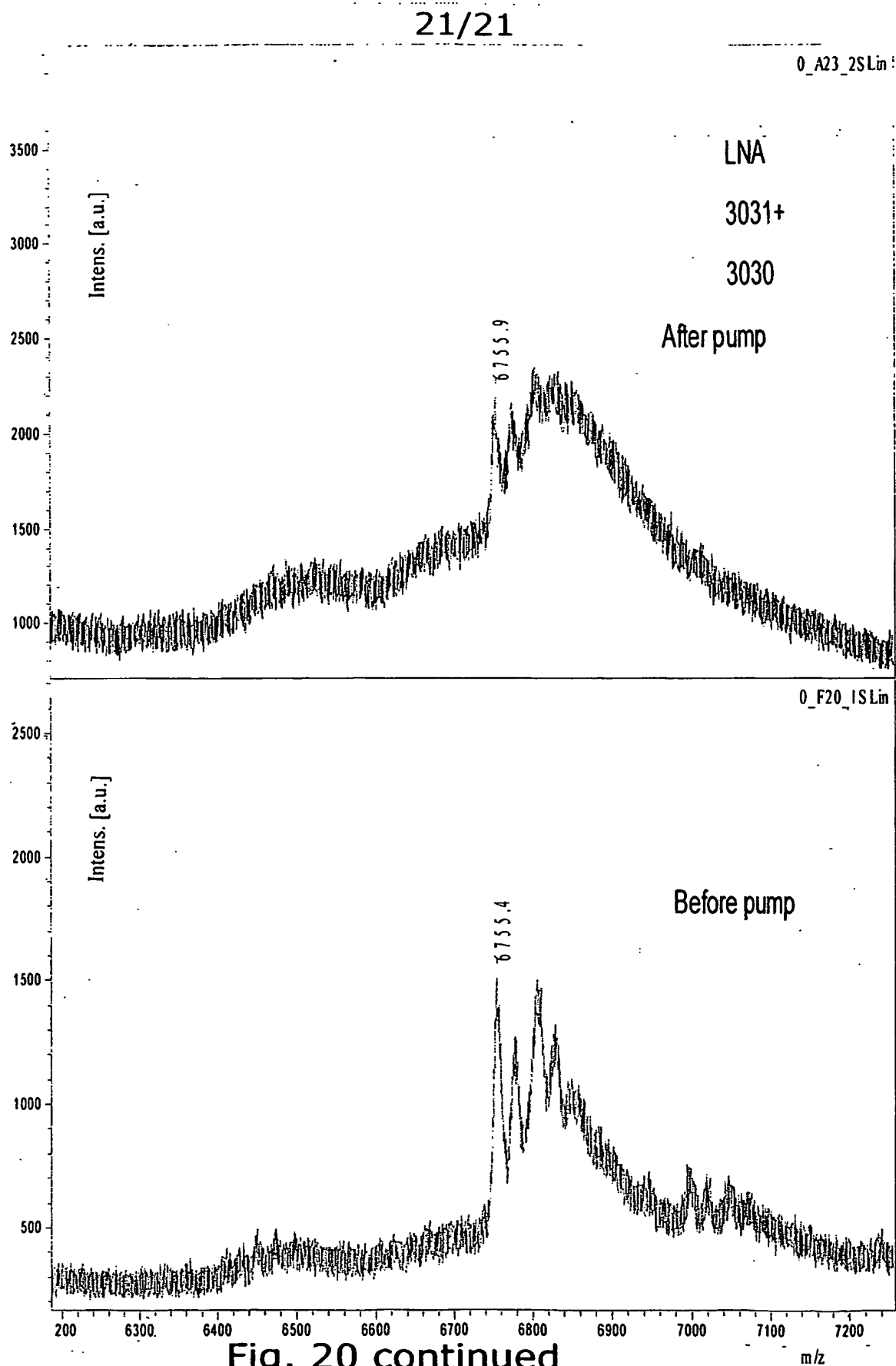


Fig. 20 continued

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